AMENDMENT TO THE SPECIFICATION

Please replace the paragraph on page 13, lines 10-24 with the following:

The filtered log magnitudes are provided as a vector of magnitude values to a posterior calculator 314, which computes a posterior probability for the vector at step 410. The posterior probability provides the probability of a clean speech log magnitude vector given the noisy speech filtered log magnitude vector. Under one embodiment, a mixture model is used consisting of a mixture of different posterior components, each having a mean and variance. Under one specific embodiment, a mixture model consisting of 512 male speaker mixture components and 512 female speaker mixture components is used. One technique for computing the posterior probabilities is discussed further below in connection with FIG. 5.